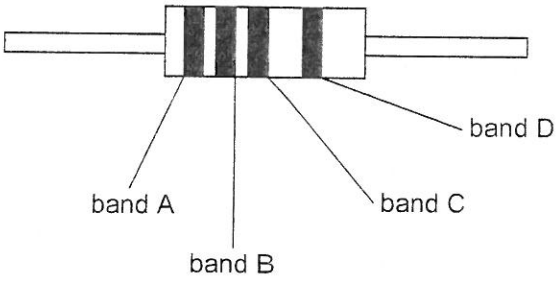
Color Coding of Resistors



The color and order of the bands tell you the resistance range of the resistor.

Resistance = AB X 10^{C} ± tolerance from band D

Example: band A is blue
band B is red
band C is brown
band D is silver

blue is 6
red is 2
brown is 1
silver is 10%

For bands A,B, & C	
black	0
brown	1
red	2
orange	3
yellow	4
green	5
blue	6
purple	7
gray	8
white	9

For band D	
gold	5%
silver	10%

Resistance = 62 X 10^{1} ± 10% = 620Ω ± 62Ω

The resistance of the resistor is between 620 – 62 = 558Ω and 620 + 62 = 682Ω.

The manufacturer of the resistor tells you the resistance of the resistor is between 558 ohms and 682 ohms.